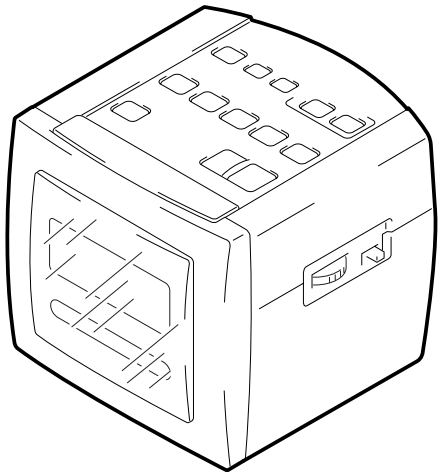
ICF-C113/C113L/C113V

SERVICE MANUAL

Ver 1.1 1998.11
With SUPPLEMENT 1 (9-925-933-81)



US Model
ICF-C113V
E Model
Australian Model
ICF-C113
UK Model
ICF-C113L
AEP Model
ICF-C113/C113L

SPECIFICATIONS

Time display :

US, UK, Australian model	12hour
EXCEPT US, UK, Australian model	24hour

Frequency range :

US model

Band	ICF-C113V	Channel step
FM	87.5 – 108 MHz	0.1MHz
AM	530 – 1,710 kHz	10kHz
TV	2 – 13CH	
WEATHER	1 – 5CH	

EXCEPT US model

Band	ICF-C113	ICF-C113L	Channel step
FM	87.5 – 108 MHz	87.5 – 108 MHz	0.05MHz*
AM (MW)	531 – 1,602 kHz	531 – 1,602 kHz	9kHz
LW	————	153 – 279 kHz	9kHz
FM	87.5 – 108 MHz	————	0.1MHz
AM	530 – 1,610 kHz	————	10kHz

* The frequency display is up or down by steps of 0.1MHz. (Example : Frequency 88.05 MHz is displayed as “88.0 MHz”.)

Speaker Approx. 6.6 cm (2 5/8 in) dia.
Power output
130 mW (at 10% harmonic distortion)
Power requirements
US model :120V AC, 60Hz
EXCEPT US model : 220 – 230V AC, 50Hz
Dimensions
Approx. 119 x 118 x 129.5 mm (w/h/d)
(4 3/4 x 4 3/4 x 5 1/8 in) incl. projecting parts and controls
Mass Approx. 630 g (1 lb 6.2 oz)
Approx. 670 g (1 lb 7.6 oz) : ICF-C113L (UK model)

Design and specifications are subject to change without notice.

ICF-C113
FM/AM PLL SYNTHESIZED CLOCK RADIO

ICF-C113L
FM/MW/LW PLL SYNTHESIZED CLOCK RADIO

ICF-C113V
TV/WEATER/FM/AM PLL SYNTHESIZED CLOCK RADIO

MICROFILM

SONY®

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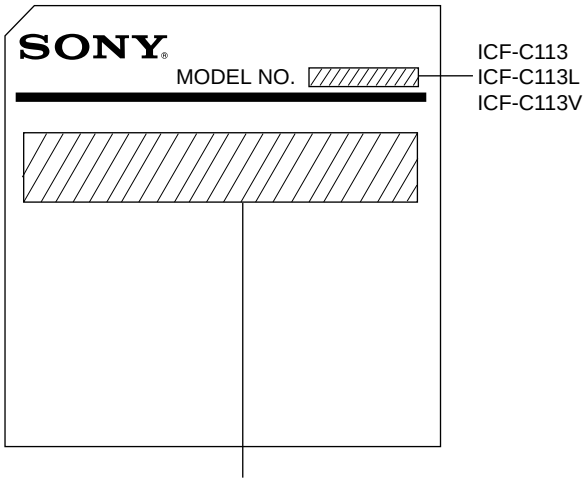
MODEL IDENTIFICATION

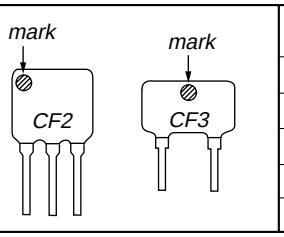
– Model Number Portion –
Carved on lower cabinet



US model : AC : 120V∼60Hz 5W
AEP, UK, Italian, E, Swiss,
Australian model : AC : 220 – 230V∼50Hz 5W

• HOW TO CHANGE THE CERAMIC FILTERS

This model is used two ceramic filters of CF2 and CF3.
You must use same type of color marked ceramic filters in order to meet same specifications.
Therefore, the ceramic filter must changed two pieces together since it's supply two pieces in in package as a spare parts.



Mark	Center frequency
red	10.70MHz
blue	10.67MHz
orange	10.73MHz
black	10.64MHz
white	10.76MHz

SAFETY CHECK-OUT (US model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer : Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOMor battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

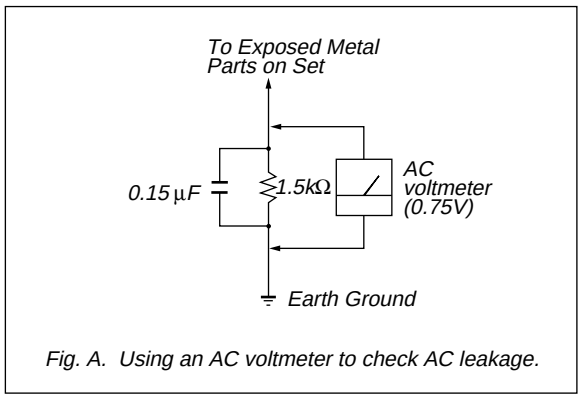


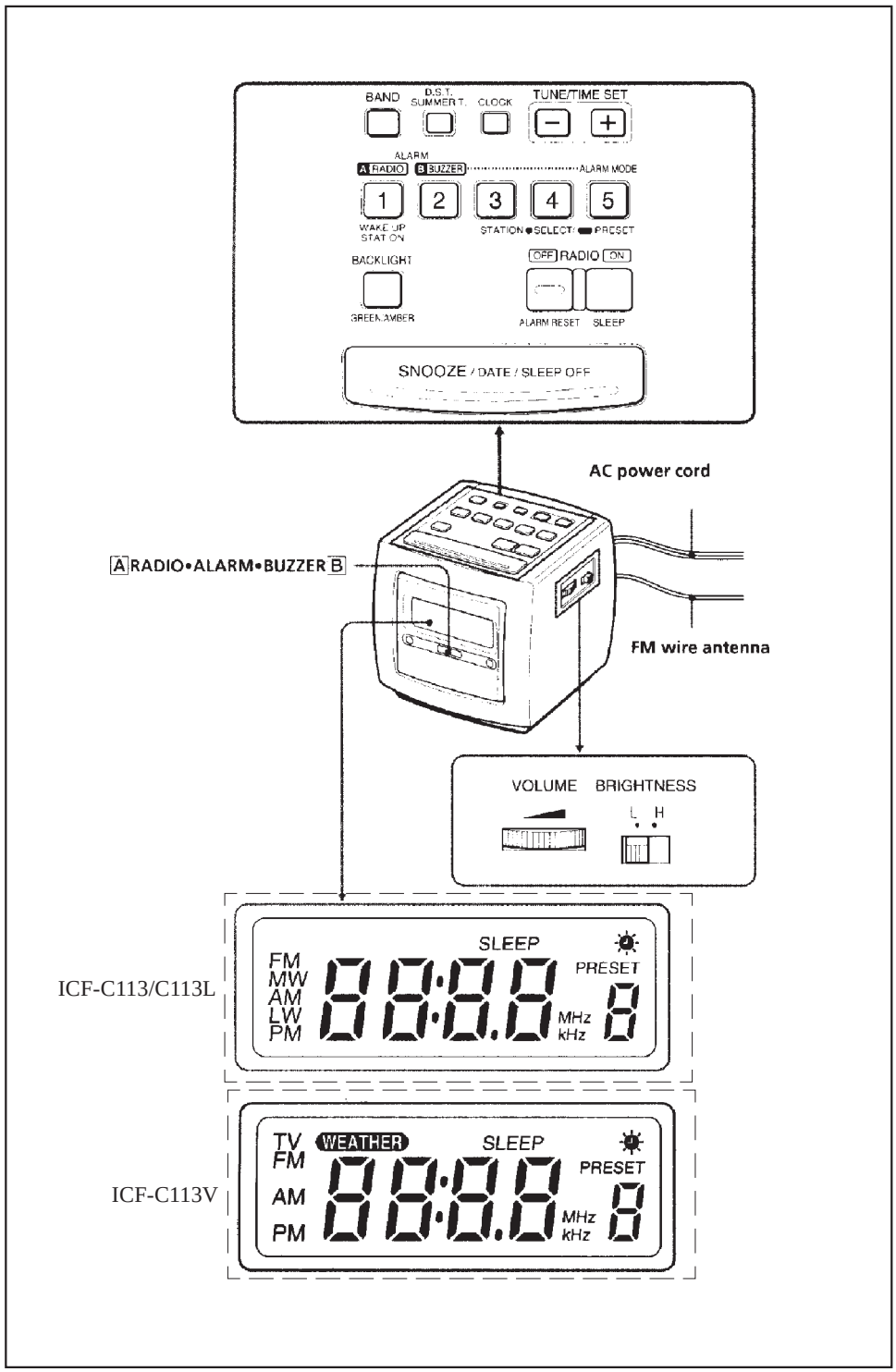
Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

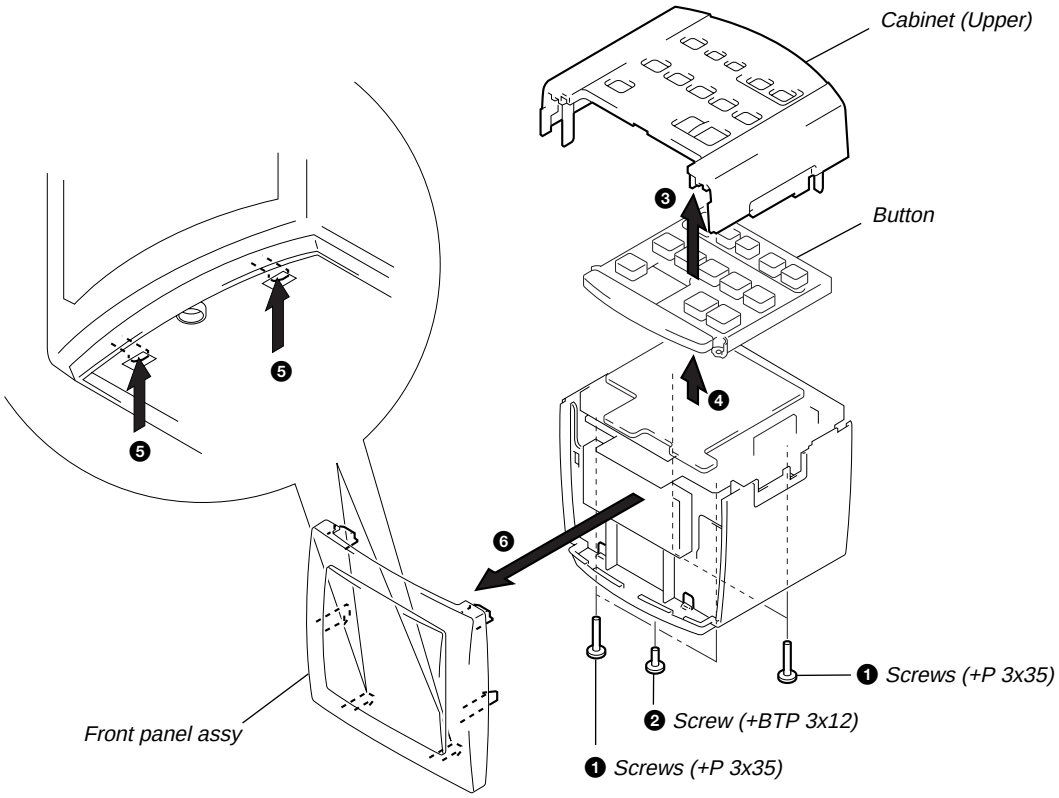
LOCATION AND FUNCTION OF CONTROL



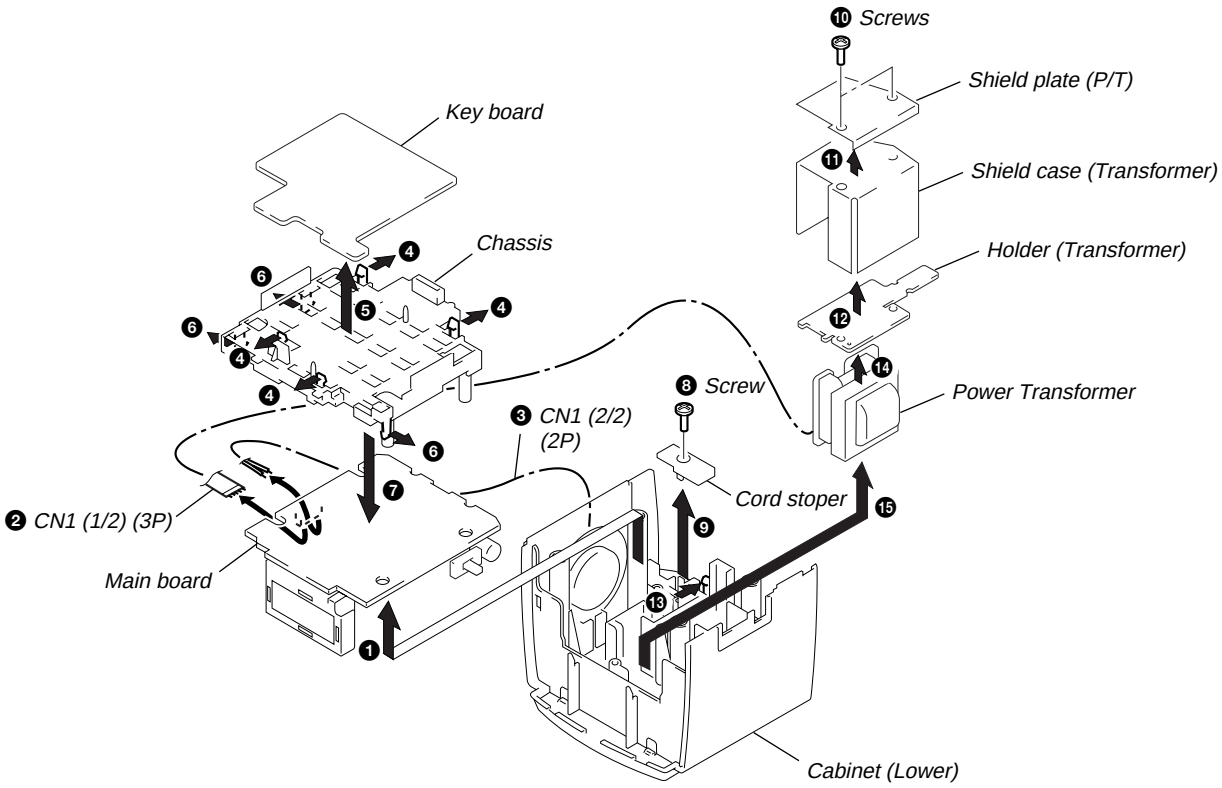
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

2-1. CABINET (UPPER), FRONT PANEL ASSY REMOVAL



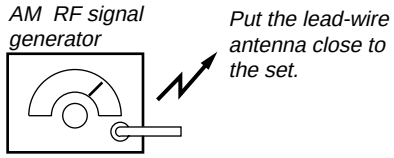
2-2. KEY BOARD, MAIN BOARD, POWER TRANSFOMER REMOVAL



SECTION 3
ELECTRICAL ADJUSTMENTS

AM Section

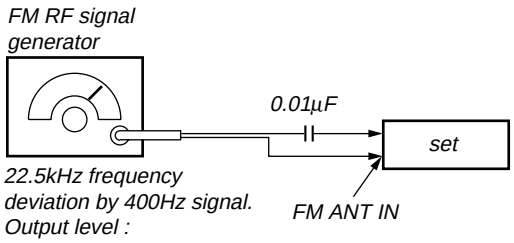
Band button : AM (ICF-C113/C113V)
: MW or LW (ICF-C113L)
Volume : MAX

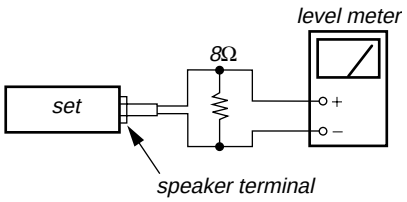


30% amplitude modulation by 400Hz signal.
Output level : as low as possible

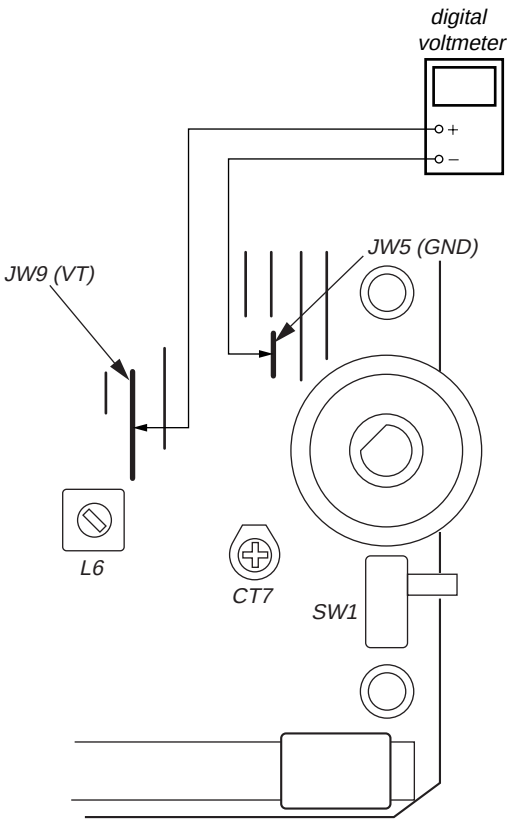
FM Section

Band button : FM
: TV (ICF-C113V)
Volume : MAX





[MAIN BOARD] (Component side)



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

( ): AEP, UK, Italian, Australian, E, Swiss model only

AM IF ALIGNMENT	
Adjust for a maximum reading on level meter.	
T2	450kHz

AM <MW> FREQUENCY COVERAGE ADJUSTMENT		
Adjust parts	Frequecy display	Reading on digital voltmeter
L6	530kHz (531kHz)	2.65 ± 0.1V (ICF-C113/C113V) 2.65 ± 0.1V (ICF-C113L)
confirmation	1,710kHz (1,602kHz)	Less than 10.0V Standard 9.5V (Less than 9.5V) (Standard 9.0V)

AM <MW> TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3 :ICF-C113/C113V L3–1 :ICF-C113L	580kHz (621kHz)
CT3	1,490kHz (1,404kHz)

ICF-C113L

LW FREQUENCY COVERAGE ADJUSTMENT		
Adjust parts	Frequecy display	Reading on digital voltmeter
CT7	153kHz	More than 2.25V (± 0.05V)
confirmation	279kHz	Less than 9.5V (Standard 9.0V)

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3 – 2	162kHz
CT2	243kHz

ICF-C113/C113L

FM FREQUENCY COVERAGE ADJUSTMENT		
Adjust parts	Frequecy display	Reading on digital voltmeter
L5	87.5MHz	3.5 ± 0.1V
confirmation	108.0MHz	Less than 11.8V (Standard 10.5V)

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L4 – 2	87.5MHz
CT5	108.0MHz

CF-C113V

FM FREQUENCY COVERAGE ADJUSTMENT			
Adjust parts	Frequecy display		Reading on digital voltmeter
L5	TV 2CH	59.75MHz	2.35 ± 0.1V
confirmation	FM	108.0MHz	Less than 13.5V (Standard 12.5V)

FM TRACKING ADJUSTMENT		
Adjust for a maximum reading on level meter.		
L4 – 2	TV 2CH	59.75MHz
CT5	FM	108.0MHz

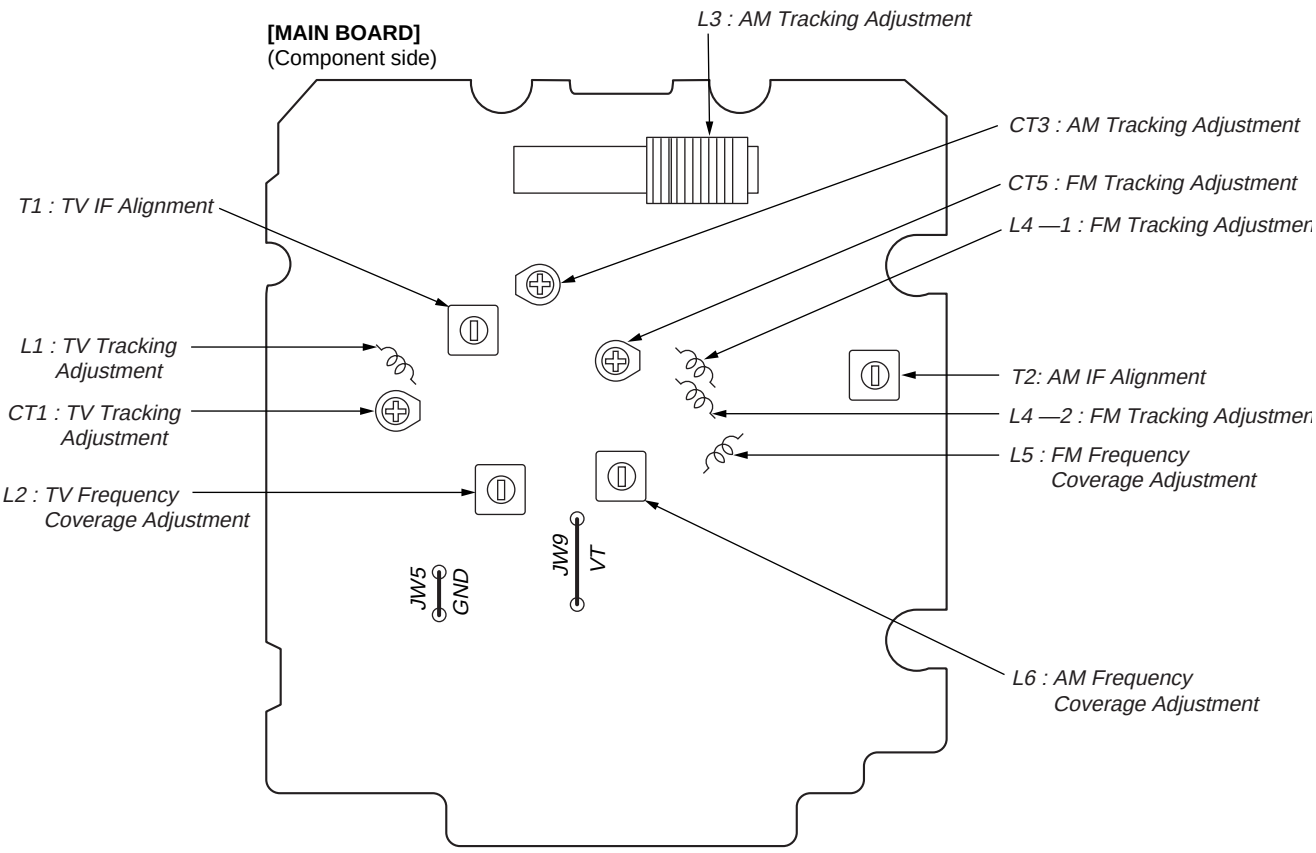
TV IF ALIGNMENT	
Adjust for a maximum reading on level meter.	
T1	10.7MHz

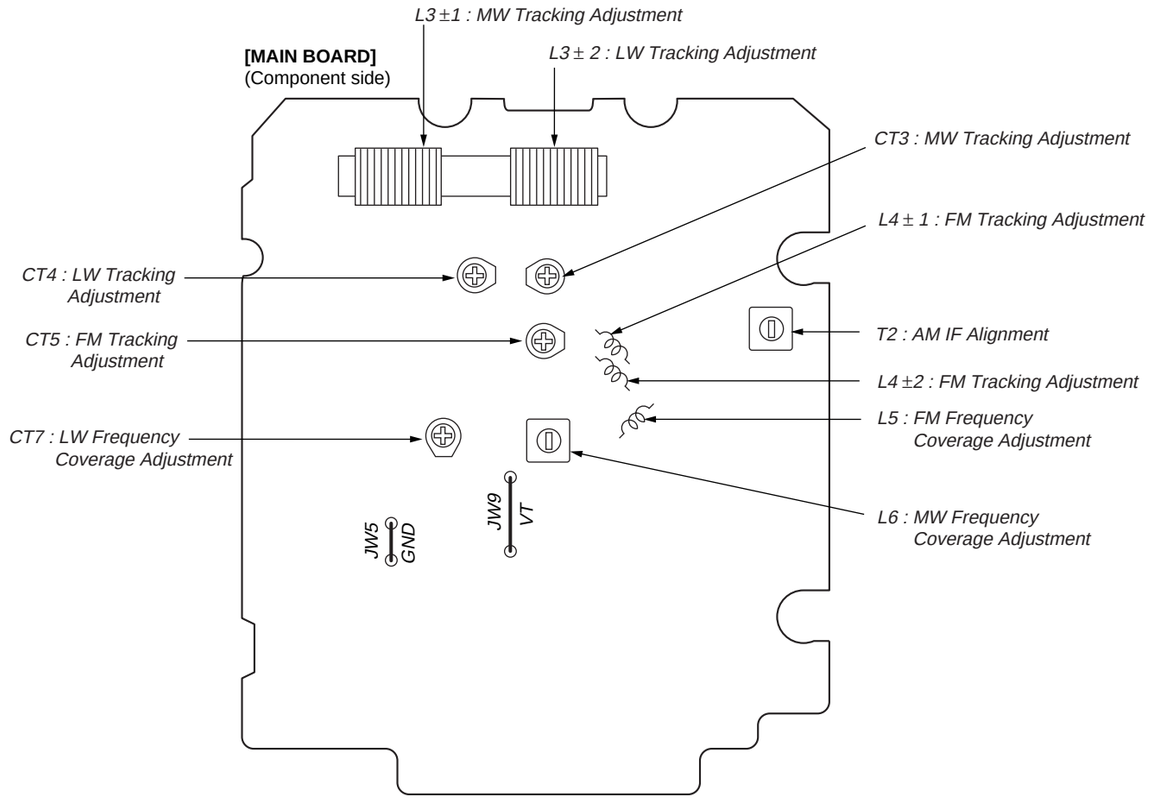
TV FREQUENCY COVERAGE ADJUSTMENT			
Adjust parts	Frequecy display		Reading on digital voltmeter
L2	WEATHER 2CH	162.4MHz	1.0 ± 0.1V
confirmation	TV 13CH	215.75MHz	less than 12.3V (Standard 11.0V)

TV TRACKING ADJUSTMENT		
Adjust for a maximum reading on level meter.		
L1	WEATHER 2CH	162.4MHz
CT1	TV 13CH	215.75MHz

Adjustment Location :

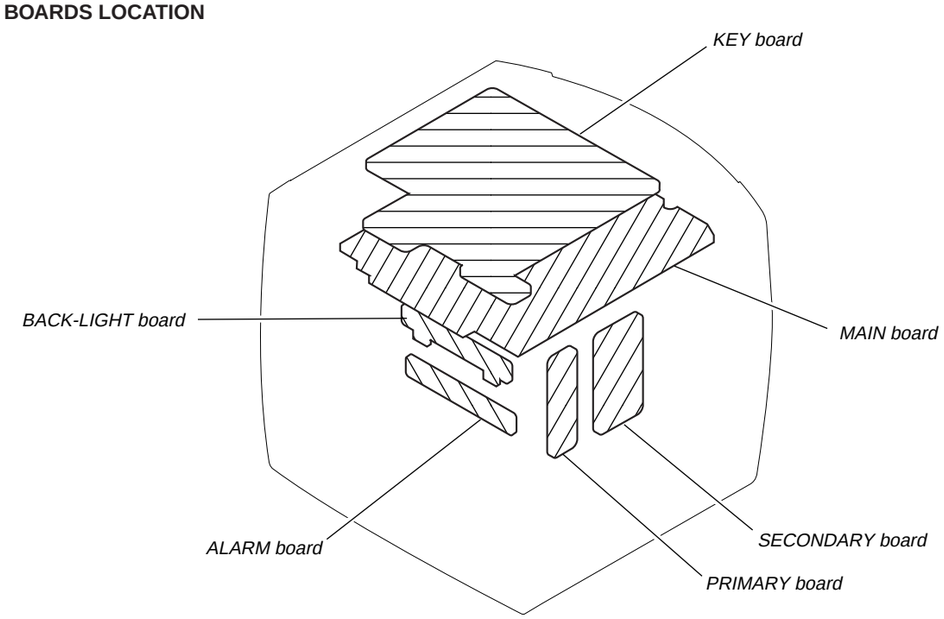
ICF-C113/C113V


[MAIN BOARD]
(Component side)
L3 : AM Tracking Adjustment
CT3 : AM Tracking Adjustment
CT5 : FM Tracking Adjustment
L4 —1 : FM Tracking Adjustmen
T1 : TV IF Alignment
L1 : TV Tracking Adjustment
CT1 : TV Tracking Adjustment
L2 : TV Frequency Coverage Adjustment
T2: AM IF Alignment
L4 —2 : FM Tracking Adjustmen
L5 : FM Frequency Coverage Adjustment
JW5
GND
JW9
VT
L6 : AM Frequency Coverage Adjustment


L3 ±1 : MW Tracking Adjustment
L3 ± 2 : LW Tracking Adjustment
[MAIN BOARD]
(Component side)
CT3 : MW Tracking Adjustment
L4 ± 1 : FM Tracking Adjustment
CT4 : LW Tracking Adjustment
CT5 : FM Tracking Adjustment
T2 : AM IF Alignment
L4 ±2 : FM Tracking Adjustment
L5 : FM Frequency Coverage Adjustment
CT7 : LW Frequency Coverage Adjustment
L6 : MW Frequency Coverage Adjustment
JW5
GND
JW9
VT

SECTION 4
DIAGRAMS

● **CIRCUIT BOARDS LOCATION**

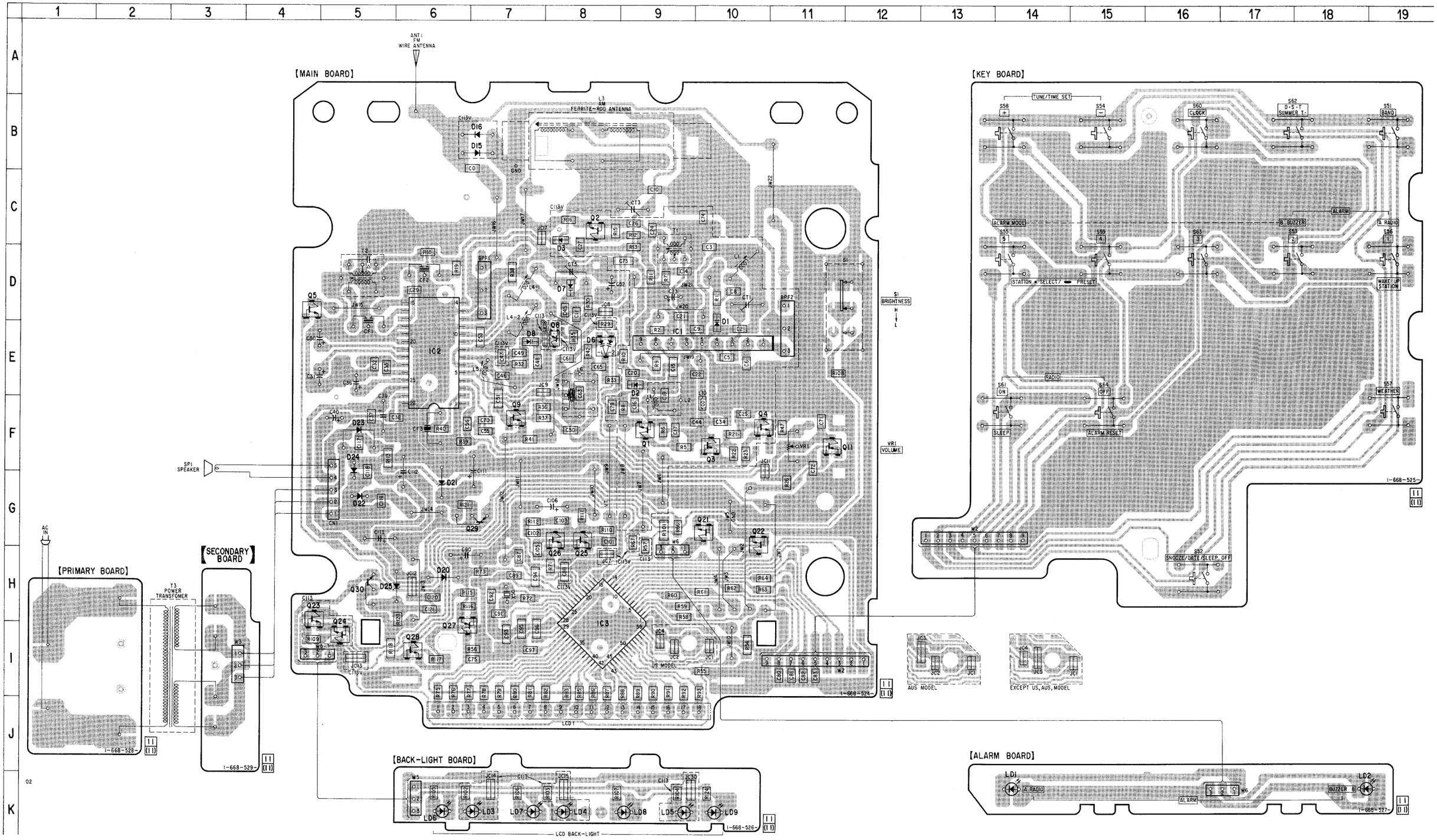


4-1. EXPLANATION OF IC TERMINALS

IC3 μPD17071 (LCD DRIVE, SYSTEM CONTROL)

Pin No.	Pin name	I/O	Description
1	INIT OUT	O	Initial output terminal.
2	COLOR1	O	LCD back-light drive. “H” : Lighting
3	MUTE	O	Mute signal output. “L” : Mute ON
4	ALMA	O	ALARM A LED drive. “H” : Lighting
5	ALMB	O	ALARM B LED drive. “H” : Lighting
6	KS0	O	Key source output terminal.
7	KS1	O	Key source output terminal.
8	KS2	O	Key source output terminal.
9	KS3	O	Key source output terminal.
10	KR0	I	Key return input terminal.
11	KR1	I	Key return input terminal.
12	KR2	I	Key return input terminal.
13	KR3	I	Key return input terminal.
14	BAND1	O	Band select signal output.
15	BAND2	O	Band select signal output.
16	V AMP	–	Not used (Open).
17	COLOR2	O	LCD back-light drive. “H” : Lighting
18	GND	–	Ground.
19	EO	O	PLL error output terminal.
20	VCOL	I	FM/AM local oscillation input terminal.
21	VCOH	I	TV local oscillation input terminal.
22	VREG1	–	Voltage REG terminal for LCD.
23	VDD	–	Power supply (+2.9V).
24	X OUT	O	System clock oscillation terminal (75kHz).
25	X IN	I	System clock oscillation terminal (75kHz).
26	VREG2	–	Voltage REG terminal for LCD.
27	VLCD0	–	LCD bias terminal.
28	CAPO	–	LCD bias terminal.
29	CAPI	–	LCD bias terminal.
30	VLCD1	–	LCD bias terminal.
31	COM0	O	Common output 0.
32	COM1	O	Common output 1.
33	COM2	O	Common output 2.
34	COM3	O	Common output 3.
35 – 49	LCD0 – 14	O	LCD segment drive output.
50	CE	I	Chip eneble input for LCD load.
51	INT	I	Intial terminal.
52	BEEP	O	Beep signal output terminal.
53		–	Not used (Open).
54	PB1	I	Mode identification terminal.
55	PB2	I	Mode identification terminal.
56	PB3	I	Mode identification terminal.

4-2. PRINTED WIRING BOARDS (ICF-C113/C113V)

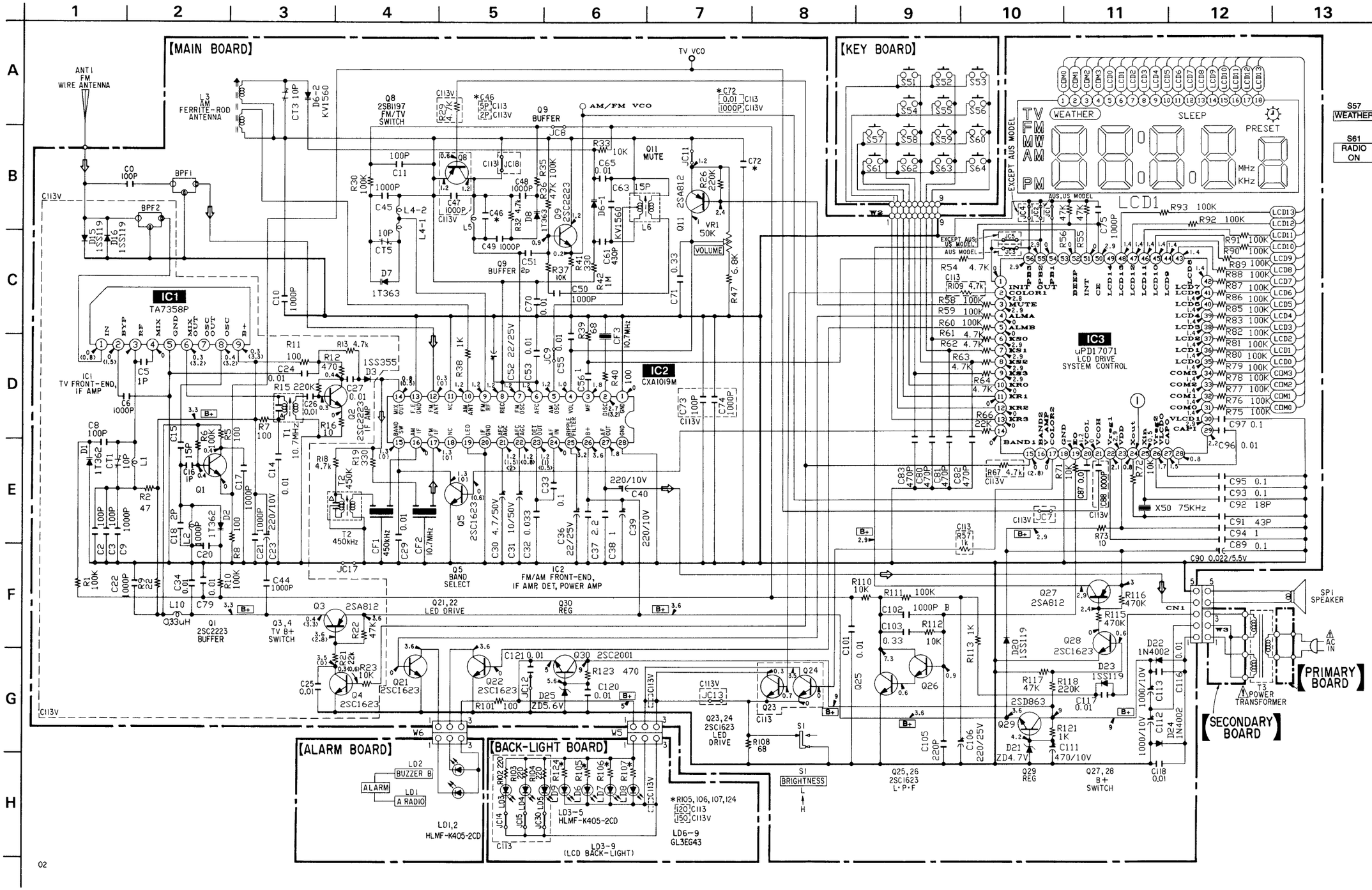


● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	D-10	D21	G-6	LD3	K-7	IC1	E-9	Q8	E-8	Q27	H-6
D2	E-9	D22	G-5	LD4	K-8	IC2	E-6	Q9	F-7		
D3	C-8			LD5	K-9	IC3	H-8	Q11	F-11	Q28	I-6
D6	E-8	D23	F-5					Q21	G-10	Q29	G-7
D7	D-8	D24	F-5	LD6	K-6			Q22	G-10	Q30	H-5
		D25	H-5	LD7	K-7	Q1	F-9				
D8	E-7			LD8	K-9	Q2	C-8	Q23	H-4		
D15	B-7			LD9	K-10	Q3	F-10	Q24	I-5		
D16	B-7	LD1	K-14			Q4	F-10	Q25	G-8		
D20	H-6	LD2	K-18			Q5	D-4	Q26	G-8		

Note:

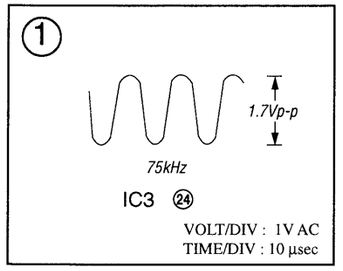
- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.



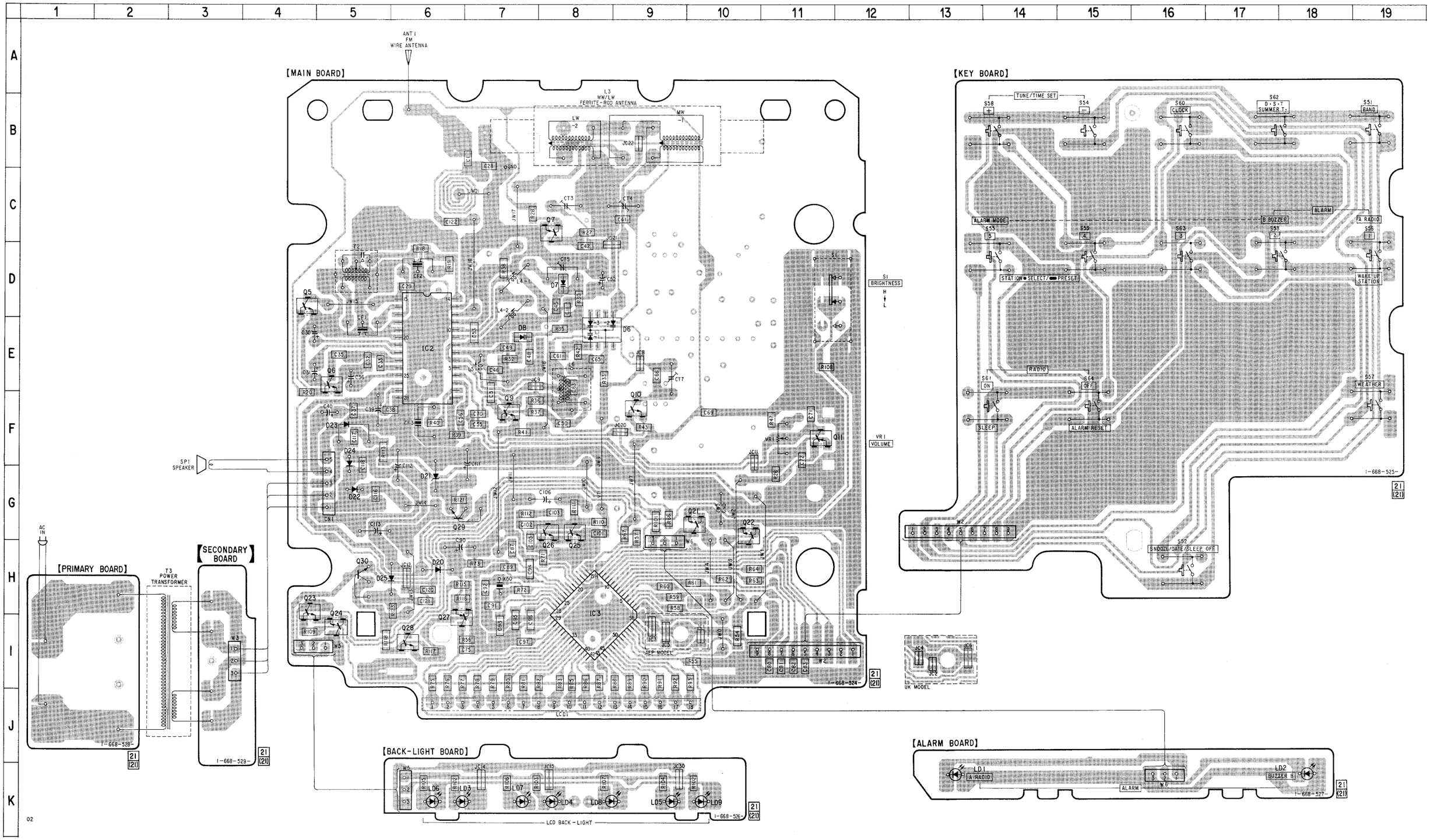
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- B+ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
  < > : TV
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  AUS : Australian

• WAVEFORM



4-4. PRINTED WIRING BOARDS (ICF-C113L)

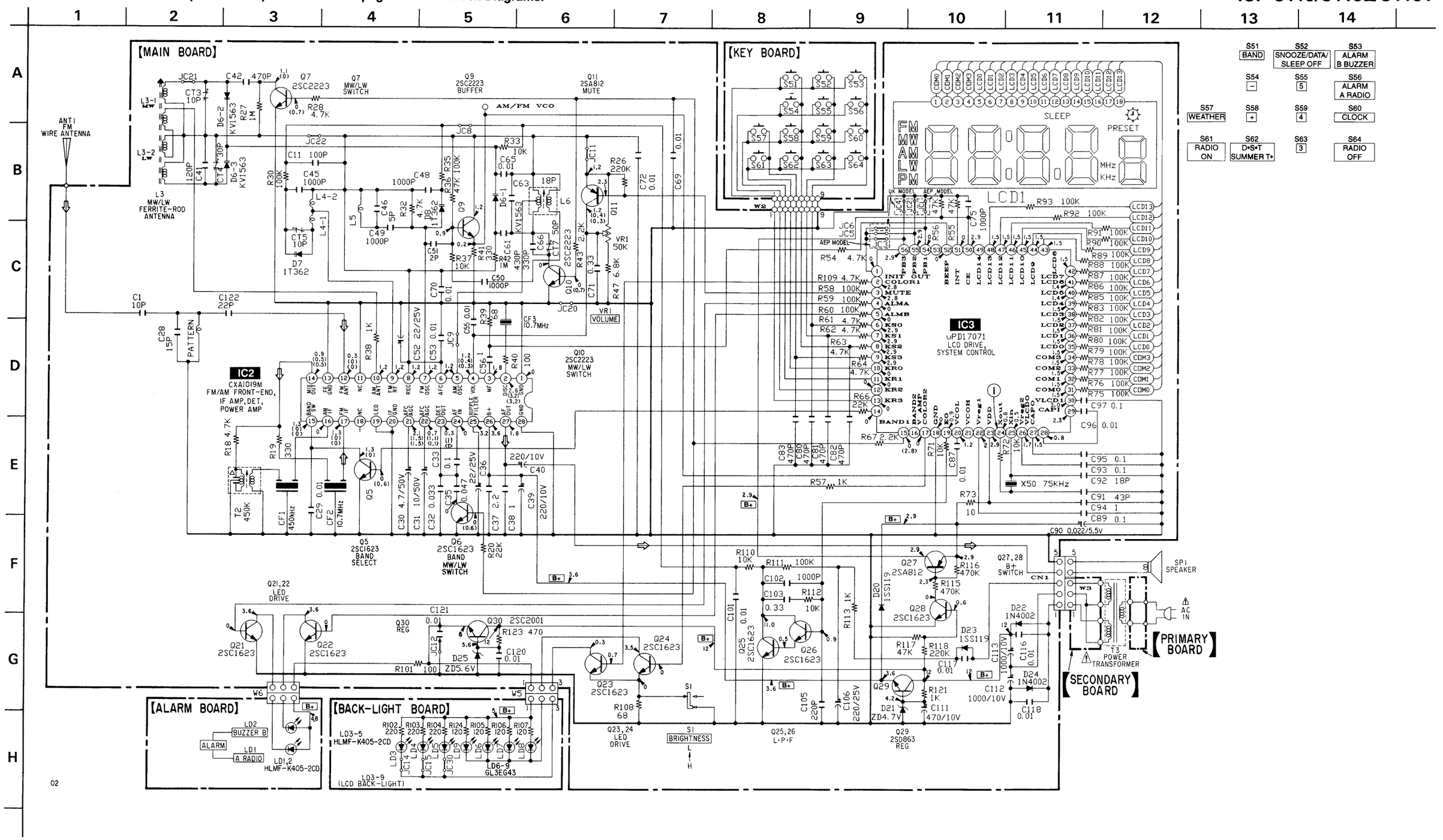


● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D6	E-8	LD1	K-13	IC2	E-6	Q11	F-11	Q29	G-7
D7	D-8	LD2	K-18	IC3	H-8	Q21	G-10		
D8	E-7	LD3	K-6			Q22	G-10	Q30	H-5
D20	H-6	LD4	K-8			Q23	H-4		
D21	G-6	LD5	K-9	Q5	D-4	Q24	I-5		
				Q6	E-5				
D22	G-5	LD6	K-6	Q7	C-8	Q25	G-8		
D23	F-5	LD7	K-7	Q9	F-7	Q26	G-8		
D24	F-5	LD8	K-8	Q10	F-9	Q27	I-6		
D25	H-5	LD9	K-10			Q28	I-6		

Note:

- ○——— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.



Note:

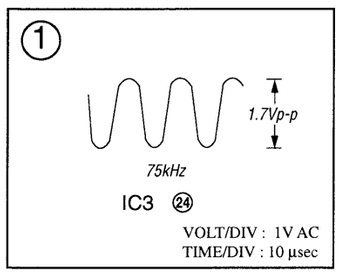
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ : B+ Line.

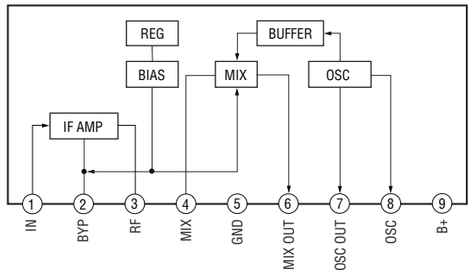
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : MW
  < > : LW
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

● WAVEFORM

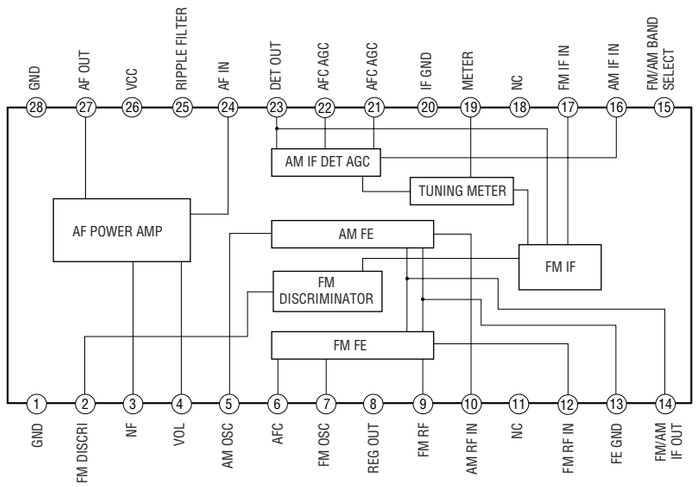


● IC BLOCK DIAGRAMS

IC1 TA7358 (ICF-C113V)



IC2 CXA1019M



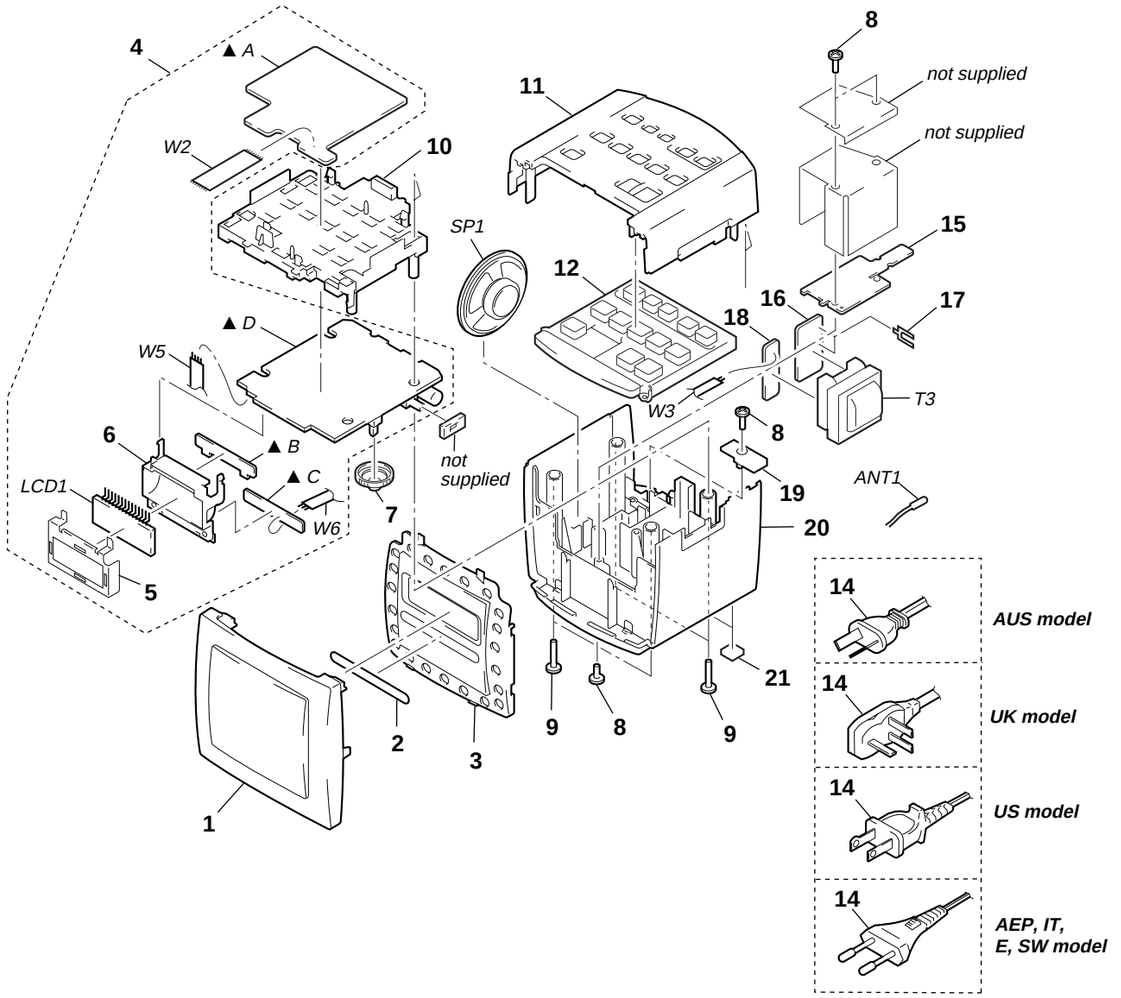
SECTION 5
EXPLODED VIEW

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ••• (RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of this parts list.
- Abbreviation
  AUS : Australian
  SW : Swiss

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

▲ *A : KEY board*
▲ *B : BACK-LIGHT board*
▲ *C : ALARM board*
▲ *D : MAIN board*



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
1	X-3374-868-1	FRONT PANEL ASSY (BLCK)	
1	X-3374-869-1	FRONT PANEL ASSY (WHITE)	
1	X-3374-870-1	FRONT PANEL ASSY (SILVER)	
2	3-020-883-01	SHEET (LED)	
3	3-020-877-01	PLATE, BACK (C113V)	
3	3-020-877-11	PLATE, BACK (C113)	
3	3-020-877-21	PLATE, BACK (C113L)	
* 4	A-3679-979-A	MAIN BOARD ASSY (C113V)	
* 4	A-3679-980-A	MAIN BOARD ASSY (C113:EXCEPT AUS)	
* 4	A-3679-981-A	MAIN BOARD ASSY (C113:AUS)	
* 4	A-3679-982-A	MAIN BOARD ASSY (C113L:AEP)	
* 4	A-3679-983-A	MAIN BOARD ASSY (C113L:UK)	
* 5	3-020-884-01	PLATE (LCD), SHIELD	
6	3-020-880-01	HOLDER (LCD)	
7	3-382-175-31	KNOB (V)	
8	7-685-548-14	SCREW +BTP 3X12 TYPE2 N-S	
9	7-685-154-19	SCREW +P 3X35 TYPE2 NON-SLIT	
* 10	3-020-878-01	CHASSIS	
11	3-020-874-21	CABINET (UPPER) (C113V) (SILVER)	
11	3-020-874-31	CABINET (UPPER) (C113,C113L) (BLACK)	
11	3-020-874-41	CABINET (UPPER) (C113,C113L) (WHITE)	
11	3-020-874-51	CABINET (UPPER) (C113,C113L) (SILVER)	
12	3-020-881-01	BUTTON (C113,C113L) (BLACK)	
12	3-020-881-11	BUTTON (C113,C113L) (WHITE)	
12	3-020-881-21	BUTTON (C113,C113L) (SILVER)	
12	3-020-881-21	BUTTON (C113V) (SILVER)	
⚠14	1-555-795-00	CORD, POWER (C113:EXCEPT AUS/ C113L:AEP) (BLACK,SILVER)	
⚠14	1-765-458-11	CORD, POWER (C113:AUS)	
⚠14	1-769-339-22	CORD, POWER (C113V)	
⚠14	1-769-578-11	CORD, POWER (C113L:UK)	
⚠14	1-777-921-21	CORD, POWER (C113:EXCEPT AUS/ C113L:AEP) (WHITE)	
* 15	3-020-882-01	HOLDER (TRANSFORMER) (C113,C113L) (BLACK)	
* 15	3-020-882-11	HOLDER (TRANSFORMER) (C113,C113L) (WHITE)	
* 15	3-020-882-21	HOLDER (TRANSFORMER) (C113,C113L, C113V) (SILVER)	
* 16	1-668-528-11	PRIMARY BOARD (C113,C113V)	
* 16	1-668-528-21	PRIMARY BOARD (C113L)	
* 17	1-535-771-11	TERMINAL (C113,C113L)	
* 18	1-668-529-11	SEDONDARY BOARD (C113,C113V)	
* 18	1-668-529-21	SEDONDARY BOARD (C113L)	
* 19	3-884-408-01	STOPPER, CORD	
20	3-020-875-21	CABINET (LOWER) (C113V) (SILVER)	
20	3-020-875-31	CABINET (LOWER) (C113) (BLACK)	
20	3-020-875-41	CABINET (LOWER) (C113) (WHITE)	
20	3-020-875-51	CABINET (LOWER) (C113) (SILVER)	
20	3-020-875-61	CABINET (LOWER) (C113L) (BLACK)	
20	3-020-875-71	CABINET (LOWER) (C113L) (WHITE)	
20	3-020-875-81	CABINET (LOWER) (C113L) (SILVER)	
21	3-368-852-01	FOOT	
ANT1	1-501-907-21	ANTENNA, FM WIRE	
LCD1	1-803-122-11	DISPLAY PANEL, LIQUID CRYSTAL	
SP1	1-504-748-21	SPEAKER (6.6cm)	
⚠T3	1-450-922-11	TRANSFORMER, POWER (C113V)	
⚠T3	1-450-923-11	TRANSFORMER, POWER (C113,C113L)	
W2	1-782-537-11	CORD, CONNECTION	
W3	1-783-718-11	CORD, CONNECTION	
W5	1-783-719-11	CORD, CONNECTION	
W6	1-783-718-11	CORD, CONNECTION	

ALARM

BACK-LIGHT **KEY**

SECTION 6
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
*	A-3679-980-A	MAIN BOARD ASSY (C113:EXCEPT AUS)				
*	A-3679-981-A	MAIN BOARD ASSY (C113:AUS)				
*	A-3679-982-A	MAIN BOARD ASSY (C113L:AEP)				
*	A-3679-983-A	MAIN BOARD ASSY (C113L:UK)				
*	A-3679-979-A	MAIN BOARD ASSY (C113V)				
		**********				
	3-020-880-01	HOLDER (LCD)				
*	3-020-884-01	PLATE (LCD), SHIELD				
**********						
		ALARM BOARD				
		**********				
		< LED >				
LD1	8-719-070-81	LED HLMF-K405-2CD (ALARM A RADIO)				
LD2	8-719-070-81	LED HLMF-K405-2CD (ALARM B BUZZER)				
**********						
		BACK-LIGHT BOARD				
		**********				
		< JUMPER RESISTOR >				
JC14	1-216-296-00	METAL CHIP	0	5%	1/8W	(C113,C113L)
JC15	1-216-296-00	METAL CHIP	0	5%	1/8W	(C113,C113L)
JC30	1-216-296-00	METAL CHIP	0	5%	1/8W	(C113,C113L)
		< LED >				
LD3	8-719-070-82	LED HLMF-KL05-2CD (LCD BACK-LIGHT)				(C113,C113L)
LD4	8-719-070-82	LED HLMF-KL05-2CD (LCD BACK-LIGHT)				(C113,C113L)
LD5	8-719-070-82	LED HLMF-KL05-2CD (LCD BACK-LIGHT)				(C113,C113L)
LD6	8-719-950-41	LED GL3EG43 (LCD BACK-LIGHT)				
LD7	8-719-950-41	LED GL3EG43 (LCD BACK-LIGHT)				
LD8	8-719-950-41	LED GL3EG43 (LCD BACK-LIGHT)				
LD9	8-719-950-41	LED GL3EG43 (LCD BACK-LIGHT)				
		< RESISTOR >				
R102	1-216-033-00	METAL CHIP	220	5%	1/10W	(C113,C113L)
R103	1-216-033-00	METAL CHIP	220	5%	1/10W	(C113,C113L)
R104	1-216-033-00	METAL CHIP	220	5%	1/10W	(C113,C113L)
R105	1-216-027-00	METAL CHIP	120	5%	1/10W	(C113,C113L)
R105	1-216-029-00	METAL CHIP	150	5%	1/10W	(C113V)
R106	1-216-027-00	METAL CHIP	120	5%	1/10W	(C113,C113L)
R106	1-216-029-00	METAL CHIP	150	5%	1/10W	(C113V)
R107	1-216-027-00	METAL CHIP	120	5%	1/10W	(C113,C113L)
R107	1-216-029-00	METAL CHIP	150	5%	1/10W	(C113V)
R124	1-216-027-00	METAL CHIP	120	5%	1/10W	(C113,C113L)
R124	1-216-029-00	METAL CHIP	150	5%	1/10W	(C113V)
**********						
		KEY BOARD				
		**********				
		< SWITCH >				
S51	1-554-303-21	SWITCH, TACTILE (BAND)				
S52	1-554-303-21	SWITCH, TACTILE (SNOOZE/DATE/SLEEP OFF)				
S53	1-554-303-21	SWITCH, TACTILE (2)				
S54	1-554-303-21	SWITCH, TACTILE (TUNE/TIME SET -)				
S55	1-554-303-21	SWITCH, TACTILE (5)				
S56	1-554-303-21	SWITCH, TACTILE (1)				
S57	1-554-303-21	SWITCH, TACTILE (WEATHER)				
S58	1-554-303-21	SWITCH, TACTILE (TUNE/TIME SET +)				
S59	1-554-303-21	SWITCH, TACTILE (4)				
S60	1-554-303-21	SWITCH, TACTILE (CLOCK)				
S61	1-554-303-21	SWITCH, TACTILE (RADIO ON, SLEEP)				
S62	1-554-303-21	SWITCH, TACTILE (D•S•T• SUMMER T•)				
S63	1-554-303-21	SWITCH, TACTILE (3)				
S64	1-554-303-21	SWITCH, TACTILE (RADIO OFF, ALARM RESET)				
**********						

Ref. No.	Part No.	Description			Remark
		MAIN BOARD			
		**********			
		< ANTENNA >			
ANT1	1-501-907-21	ANTENNA, FM WIRE			
		< FILTER >			
BPF1	1-235-826-11	FILTER, BAND PASS (C113,C113V)			
BPF2	1-235-763-11	FILTER, BAND PASS (C113V)			
		< CAPACITOR >			
C0	1-163-251-11	CERAMIC CHIP	100PF	5% 50V (C113,C113V)	
C1	1-163-227-11	CERAMIC CHIP	10PF	0.5PF 50V (C113L)	
C2	1-163-251-11	CERAMIC CHIP	100PF	5% 50V (C113V)	
C3	1-163-251-11	CERAMIC CHIP	100PF	5% 50V (C113V)	
C5	1-163-217-11	CERAMIC CHIP	1PF	0.25PF 50V (C113V)	
C6	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V (C113V)	
C8	1-163-251-11	CERAMIC CHIP	100PF	5% 50V (C113V)	
C9	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V (C113V)	
C10	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V (C113,C113V)	
C11	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
C14	1-163-031-11	CERAMIC CHIP	0.01uF	50V (C113V)	
C15	1-163-161-00	CERAMIC CHIP	15PF	5% 50V (C113V)	
C16	1-163-217-11	CERAMIC CHIP	1PF	0.25PF 50V (C113V)	
C17	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V (C113V)	
C18	1-163-085-00	CERAMIC CHIP	2PF	50V (C113V)	
C20	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V (C113V)	
C21	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V (C113V)	
C22	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V (C113V)	
C23	1-126-934-11	ELECT	220uF	20% 10V (C113V)	
C24	1-163-031-11	CERAMIC CHIP	0.01uF	50V (C113V)	
C25	1-163-031-11	CERAMIC CHIP	0.01uF	50V (C113V)	
C26	1-163-031-11	CERAMIC CHIP	0.01uF	50V (C113V)	
C27	1-163-031-11	CERAMIC CHIP	0.01uF	50V (C113V)	
C28	1-163-231-11	CERAMIC CHIP	15PF	5% 50V (C113L)	
C29	1-163-031-11	CERAMIC CHIP	0.01uF	50V	
C30	1-126-963-11	ELECT	4.7uF	20% 50V	
C31	1-126-964-11	ELECT	10uF	20% 50V	
C32	1-163-989-11	CERAMIC CHIP	0.033uF	10% 25V	
C33	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C34	1-163-031-11	CERAMIC CHIP	0.01uF	50V (C113V)	
C35	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V (C113L)	
C36	1-128-551-11	ELECT	22uF	20% 25V	
C37	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C38	1-164-346-11	CERAMIC CHIP	1uF	16V	
C39	1-126-934-11	ELECT	220uF	20% 10V	
C40	1-126-934-11	ELECT	220uF	20% 10V	
C41	1-163-253-11	CERAMIC CHIP	120PF	5% 50V (C113L)	
C42	1-163-133-00	CERAMIC CHIP	470PF	5% 50V (C113L)	
C44	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V (C113V)	
C45	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V	
C46	1-163-222-11	CERAMIC CHIP	5PF	0.25PF 50V (C113,C113L)	
C46	1-163-085-00	CERAMIC CHIP	2PF	50V (C113V)	
C47	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V (C113V)	
C48	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V	
C49	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V	
C50	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C51	1-163-149-00	CERAMIC CHIP	2PF	0.25PF 50V	
C52	1-128-551-11	ELECT	22uF	20% 25V	
C53	1-163-059-11	CERAMIC CHIP	0.01uF	10% 50V	
C55	1-163-031-11	CERAMIC CHIP	0.01uF	50V	
C56	1-164-346-11	CERAMIC CHIP	1uF	16V	
C61	1-163-132-00	CERAMIC CHIP	430PF	5% 50V	
C63	1-163-231-11	CERAMIC CHIP	15PF	5% 50V (C113,C113V)	
C63	1-163-099-00	CERAMIC CHIP	18PF	5% 50V (C113L)	
C65	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C66	1-163-263-11	CERAMIC CHIP	330PF	5% 50V (C113L)	
C69	1-163-031-11	CERAMIC CHIP	0.01uF	50V (C113L)	
C70	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C71	1-164-336-11	CERAMIC CHIP	0.33uF	25V	
C72	1-163-031-11	CERAMIC CHIP	0.01uF	50V (C113,C113L)	
C72	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V (C113V)	
C73	1-163-181-00	CERAMIC CHIP	100PF	5% 50V (C113V)	
C74	1-163-141-00	CERAMIC CHIP	0.001uF	5% 50V (C113V)	
C75	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C79	1-164-232-11	CERAMIC CHIP	0.01uF	50V (C113V)	
C80	1-163-133-00	CERAMIC CHIP	470PF	5% 50V	
C81	1-163-133-00	CERAMIC CHIP	470PF	5% 50V	
C82	1-163-133-00	CERAMIC CHIP	470PF	5% 50V	
C83	1-163-133-00	CERAMIC CHIP	470PF	5% 50V	
C87	1-164-232-11	CERAMIC CHIP	0.01uF	50V	

MAIN

Ref. No.	Part No.	Description			Remark
C88	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V (C113V)
C89	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C90	1-125-691-11	DOUBLE LAYER	0.022F	0	5.5V
C91	1-163-108-00	CERAMIC CHIP	43PF	5%	50V
C92	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C93	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C94	1-162-638-11	CERAMIC CHIP	1uF		16V
C95	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C96	1-163-059-11	CERAMIC CHIP	0.01uF	10%	50V
C97	1-163-038-11	CERAMIC CHIP	0.1uF		25V
C101	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C102	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C103	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C105	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C106	1-104-666-11	ELECT	220uF	20%	25V
C111	1-126-925-11	ELECT	470uF	20%	10V
C112	1-126-926-11	ELECT	1000uF	20%	10V
C113	1-126-926-11	ELECT	1000uF	20%	10V
C116	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C117	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C118	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C120	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C121	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C122	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (C113L)
		< FILTER >			
* CF1	1-577-319-11	FILTER, CERAMIC (C113,C113V)			
CF1	1-578-677-21	FILTER, CRYSTAL (C113L)			
CF2	1-579-632-41	FILTER, CERAMIC			
CF3	1-579-632-41	FILTER, CERAMIC			
		< CONNECTOR >			
* CN1	1-568-271-11	SOCKET, CONNECTOR 5P			
		< TRIMMER >			
CT1	1-141-304-21	CAP, TRIMMER 10PF (C113V)			
CT3	1-141-304-21	CAP, TRIMMER 10PF			
CT4	1-141-443-11	CAP, CERAMIC TRIMMER 30PF (C113L)			
CT5	1-141-304-21	CAP, TRIMMER 10PF			
CT7	1-141-444-11	CAP, CERAMIC TRIMMER 50PF (C113L)			
		< DIODE >			
D1	8-713-100-11	DIODE 1T362 (C113V)			
D2	8-713-100-11	DIODE 1T362 (C113V)			
D3	8-719-988-62	DIODE 1SS355 (C113V)			
D6	8-719-951-05	DIODE KV1560 (C113,C113V)			
D6	8-719-023-99	DIODE KV1563M-3 (C113L)			
D7	8-713-100-11	DIODE 1T362 (C113,C113L)			
D7	8-719-002-81	DIODE 1T363 (C113V)			
D8	8-713-100-11	DIODE 1T362 (C113,C113L)			
D8	8-719-002-81	DIODE 1T363 (C113V)			
D15	8-719-911-19	DIODE 1SS119 (C113V)			
D16	8-719-911-19	DIODE 1SS119 (C113V)			
D20	8-719-911-19	DIODE 1SS119			
D21	8-719-921-40	DIODE MTZJ-4.7C			
D22	8-719-052-88	DIODE 1N4002			
D23	8-719-911-19	DIODE 1SS119			
D24	8-719-052-88	DIODE 1N4002			
D25	8-719-109-88	DIODE RD5.6ES-B1			
		< IC >			
IC1	8-759-204-01	IC TA7358P (C113V)			
IC2	8-752-050-16	IC CXA1019M			
IC3	8-759-531-36	IC uPD17071GB-523-1A7			
		< JUMPER RESISTOR >			
JC1	1-216-295-00	METAL CHIP	0	5%	1/10W (C113,C113L:AEP,C113V)
JC2	1-216-295-00	METAL CHIP	0	5%	1/10W (C113:AUS/C113L:UK,C113V)
JC3	1-216-296-00	METAL CHIP	0	5%	1/8W (C113:AUS/C113L:AEP)
JC4	1-216-295-00	METAL CHIP	0	5%	1/10W (C113:EXCEPT AUS/C113L:UK,C113V)
JC5	1-216-296-00	METAL CHIP	0	5%	1/8W (C113:EXCEPT AUS/C113L:AEP)
JC6	1-216-296-00	METAL CHIP	0	5%	1/8W (C113L:UK)
JC7	1-216-295-00	METAL CHIP	0	5%	1/10W (C113V)
JC8	1-216-295-00	METAL CHIP	0	5%	1/10W
JC9	1-216-295-00	METAL CHIP	0	5%	1/10W
JC11	1-216-295-00	METAL CHIP	0	5%	1/10W
JC12	1-216-296-00	METAL CHIP	0	5%	1/8W
JC13	1-216-296-00	METAL CHIP	0	5%	1/8W (C113V)
JC17	1-216-295-00	METAL CHIP	0	5%	1/10W (C113,C113V)
JC18	1-216-295-00	METAL CHIP	0	5%	1/10W (C113)
JC20	1-216-295-00	METAL CHIP	0	5%	1/10W (C113L)
JC21	1-216-296-00	METAL CHIP	0	5%	1/8W (C113L)
JC22	1-216-295-00	METAL CHIP	0	5%	1/10W (C113L)
		< COIL >			
L1	1-402-969-11	COIL, AIR-CORE (C113V)			
L2	1-402-966-11	COIL (OSC) (C113V)			
L3	1-402-616-11	ANTENNA, FERRITE-ROD (AM) (C113,C113V)			
L3	1-501-715-11	ANTENNA, FERRITE-ROD (LW/MW) (C113L)			
L4-1	1-428-290-11	COIL, AIR-CORE			
L4-2	1-406-545-11	COIL, AIR-CORE			
L5	1-406-545-11	COIL, AIR-CORE			
L6	1-406-485-11	COIL (OSC)			
L10	1-410-987-11	INDUCTOR CHIP 0.33uH (C113V)			
		< LIQUID CRYSTAL DISPLAY >			
LCD1	1-803-122-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q1	8-729-102-07	TRANSISTOR 2SC2223-F13 (C113V)			
Q2	8-729-102-07	TRANSISTOR 2SC2223-F13 (C113V)			
Q3	8-729-216-22	TRANSISTOR 2SA1162-G (C113V)			
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6 (C113V)			

Ref. No.	Part No.	Description			Remark
Q5	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q6	8-729-120-28	TRANSISTOR	2SC1623-L5L6 (C113L)		
Q7	8-729-102-07	TRANSISTOR	2SC2223-F13 (C113L)		
Q8	8-729-904-87	TRANSISTOR	2SB1197K-R (C113V)		
Q9	8-729-102-07	TRANSISTOR	2SC2223-F13		
Q10	8-729-102-07	TRANSISTOR	2SC2223-F13 (C113L)		
Q11	8-729-216-22	TRANSISTOR	2SA1162-G		
Q21	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q22	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q23	8-729-120-28	TRANSISTOR	2SC1623-L5L6 (C113,C113L)		
Q24	8-729-120-28	TRANSISTOR	2SC1623-L5L6 (C113,C113L)		
Q25	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q26	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q27	8-729-216-22	TRANSISTOR	2SA1162-G		
Q28	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q29	8-729-045-24	TRANSISTOR	2SD863F-AE		
Q30	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2		
		< RESISTOR >			
R1	1-216-097-11	RES,CHIP	100K	5%	1/10W (C113V)
R2	1-216-017-11	RES,CHIP	47	5%	1/10W (C113V)
R5	1-216-025-11	RES,CHIP	100	5%	1/10W (C113V)
R6	1-216-097-11	RES,CHIP	100K	5%	1/10W (C113V)
R7	1-216-025-11	RES,CHIP	100	5%	1/10W (C113V)
R8	1-216-025-11	RES,CHIP	100	5%	1/10W (C113V)
R9	1-216-009-00	METAL CHIP	22	5%	1/10W (C113V)
R10	1-216-097-11	RES,CHIP	100K	5%	1/10W (C113V)
R11	1-216-025-11	RES,CHIP	100	5%	1/10W (C113V)
R12	1-216-041-00	METAL CHIP	470	5%	1/10W (C113V)
R13	1-216-065-11	RES,CHIP	4.7K	5%	1/10W (C113V)
R15	1-216-105-11	RES,CHIP	220K	5%	1/10W (C113V)
R16	1-216-001-00	METAL CHIP	10	5%	1/10W (C113V)
R18	1-216-065-11	RES,CHIP	4.7K	5%	1/10W
R19	1-216-037-00	METAL CHIP	330	5%	1/10W
R20	1-216-081-00	METAL CHIP	22K	5%	1/10W (C113L)
R21	1-216-081-00	METAL CHIP	22K	5%	1/10W (C113V)
R22	1-216-089-11	RES,CHIP	47K	5%	1/10W (C113V)
R23	1-216-073-00	METAL CHIP	10K	5%	1/10W (C113V)
R26	1-216-105-11	RES,CHIP	220K	5%	1/10W
R27	1-216-121-11	RES,CHIP	1M	5%	1/10W (C113L)
R28	1-216-065-11	RES,CHIP	4.7K	5%	1/10W (C113L)
R29	1-216-065-11	RES,CHIP	4.7K	5%	1/10W (C113V)
R30	1-216-097-11	RES,CHIP	100K	5%	1/10W
R32	1-216-065-11	RES,CHIP	4.7K	5%	1/10W
R33	1-216-073-00	METAL CHIP	10K	5%	1/10W
R35	1-216-097-11	RES,CHIP	100K	5%	1/10W
R36	1-216-089-11	RES,CHIP	47K	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-198-11	RES,CHIP	1K	5%	1/8W
R39	1-216-021-00	METAL CHIP	68	5%	1/10W
R40	1-216-025-11	RES,CHIP	100	5%	1/10W
R41	1-216-037-00	METAL CHIP	330	5%	1/10W
R42	1-216-121-11	RES,CHIP	1M	5%	1/10W
R43	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C113L)
R47	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R54	1-216-214-00	RES,CHIP	4.7K	5%	1/8W
R55	1-216-089-11	RES,CHIP	47K	5%	1/10W
R56	1-216-089-11	RES,CHIP	47K	5%	1/10W
R57	1-216-049-11	RES,CHIP	1K	5%	1/10W (C113,C113L)
R58	1-216-097-11	RES,CHIP	100K	5%	1/10W
R59	1-216-097-11	RES,CHIP	100K	5%	1/10W
R60	1-216-097-11	RES,CHIP	100K	5%	1/10W
R61	1-216-065-11	RES,CHIP	4.7K	5%	1/10W
R62	1-216-065-11	RES,CHIP	4.7K	5%	1/10W
R63	1-216-065-11	RES,CHIP	4.7K	5%	1/10W
R64	1-216-065-11	RES,CHIP	4.7K	5%	1/10W
R66	1-216-081-00	METAL CHIP	22K	5%	1/10W
R67	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (C113L)
R67	1-216-065-11	RES,CHIP	4.7K	5%	1/10W (C113V)
R71	1-216-073-00	METAL CHIP	10K	5%	1/10W
R72	1-216-073-00	METAL CHIP	10K	5%	1/10W
R73	1-216-001-00	METAL CHIP	10	5%	1/10W
R75	1-216-097-11	RES,CHIP	100K	5%	1/10W
R76	1-216-097-11	RES,CHIP	100K	5%	1/10W
R77	1-216-097-11	RES,CHIP	100K	5%	1/10W
R78	1-216-097-11	RES,CHIP	100K	5%	1/10W
R79	1-216-097-11	RES,CHIP	100K	5%	1/10W
R80	1-216-097-11	RES,CHIP	100K	5%	1/10W
R81	1-216-097-11	RES,CHIP	100K	5%	1/10W
R82	1-216-097-11	RES,CHIP	100K	5%	1/10W
R83	1-216-097-11	RES,CHIP	100K	5%	1/10W
R85	1-216-097-11	RES,CHIP	100K	5%	1/10W
R86	1-216-097-11	RES,CHIP	100K	5%	1/10W
R87	1-216-097-11	RES,CHIP	100K	5%	1/10W
R88	1-216-097-11	RES,CHIP	100K	5%	1/10W
R89	1-216-097-11	RES,CHIP	100K	5%	1/10W
R90	1-216-097-11	RES,CHIP	100K	5%	1/10W
R91	1-216-097-11	RES,CHIP	100K	5%	1/10W
R92	1-216-097-11	RES,CHIP	100K	5%	1/10W
R93	1-216-097-11	RES,CHIP	100K	5%	1/10W
R101	1-216-174-00	RES,CHIP	100	5%	1/8W
R108	1-216-021-00	METAL CHIP	68	5%	1/10W
R109	1-216-065-11	RES,CHIP	4.7K	5%	1/10W (C113,C113L)

MAIN **PRIMARY** **SECONDARY**

Ref. No.	Part No.	Description			Remark
R110	1-216-073-00	METAL CHIP	10K	5%	1/10W
R111	1-216-097-11	RES,CHIP	100K	5%	1/10W
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W
R113	1-216-198-11	RES,CHIP	1K	5%	1/8W
R115	1-216-113-00	METAL CHIP	470K	5%	1/10W
R116	1-216-113-00	METAL CHIP	470K	5%	1/10W
R117	1-216-089-11	RES,CHIP	47K	5%	1/10W
R118	1-216-254-00	RES,CHIP	220K	5%	1/8W
R121	1-216-049-11	RES,CHIP	1K	5%	1/10W
R123	1-216-041-00	METAL CHIP	470	5%	1/10W
		< SWITCH >			
S1	1-692-181-31	SWITCH, SLIDE (BRIGHTNESS)			
		< TRANSFORMER >			
T1	1-404-674-11	TRANSFORMER, IF (TV MIX) (C113V)			
T2	1-404-790-11	TRANSFORMER, IF			
		< VARIABLE RESISTOR >			
VR1	1-225-441-11	RES, VAR, CARBON 50K (VOLUME)			
		< CONNECTION CORD >			
W2	1-782-537-11	CORD, CONNECTION			
W5	1-783-719-11	CORD, CONNECTION			
W6	1-783-718-11	CORD, CONNECTION			
		< VIBRATOR >			
X50	1-767-517-11	VIBRATOR, CRYSTAL (75kHz)			
**********					
*	1-668-528-11	PRIMARY BOARD (C113,C113V)			
*	1-668-528-21	PRIMARY BOARD (C113L)			
		**********			
*	1-535-771-11	TERMINAL (C113,C113L)			
**********					
*	1-668-529-11	SEDONDARY BOARD (C113,C113V)			
*	1-668-529-21	SEDONDARY BOARD (C113L)			
		**********			
		< CONNECTION, CORD >			
W3	1-783-718-11	CORD, CONNECTION			
**********					
		MISCELLANEOUS			
		**********			
⚠14	1-555-795-00	CORD, POWER (C113:EXCEPT AUS/ C113L:AEP) (BLACK,SILVER)			
⚠14	1-765-458-11	CORD, POWER (C113:AUS)			
⚠14	1-769-339-22	CORD, POWER (C113V)			
⚠14	1-769-578-11	CORD, POWER (C113L:UK)			
⚠14	1-777-921-21	CORD, POWER (C113:EXCEPT AUS/ C113L:AEP) (WHITE)			
* 17	1-535-771-11	TERMINAL (C113,C113L)			
ANT1	1-501-907-21	ANTENNA, FM WIRE			
LCD1	1-803-122-11	DISPLAY PANEL, LIQUID CRYSTAL			
SP1	1-504-748-21	SPEAKER (6.6cm)			

Ref. No.	Part No.	Description	Remark
⚠T3	1-450-922-11	TRANSFORMER, POWER (C113V)	
⚠T3	1-450-923-11	TRANSFORMER, POWER (C113,C113L)	
W2	1-782-537-11	CORD, CONNECTION	
W3	1-783-718-11	CORD, CONNECTION	
W5	1-783-719-11	CORD, CONNECTION	
W6	1-783-718-11	CORD, CONNECTION	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	3-861-951-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) (C113:AEP,Swiss, AUS,C113L)	
	3-861-951-21	MANUAL, INSTRUCTION (ENGLISH) (C113V)	
	3-861-951-31	MANUAL, INSTRUCTION (SPANISH, PORTUGUESE,SWEDISH, FINNISH) (C113:AEP)	
	3-861-951-41	MANUAL, INSTRUCTION (ENGLISH, ITALIAN, SPANISH, CHINESE) (C113:Italian, E/ C113L:AEP)	
	3-861-951-51	MANUAL, INSTRUCTION (RUSSIAN, CZECH, POLISH, HUNGALIAN) (C113:Swiss)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

ICF-C113/C113L/C113V

SONY

SERVICE MANUAL

1998. 11

US Model
ICF-C113V
E Model
Australian Model
ICF-C113
UK Model
ICF-C113L
AEP Model
ICF-C113/C113L

SUPPLEMENT - 1

File this Supplement with the Service Manual.

Subject :
● 7CET MODEL HAS BEEN ADDED FOR ICF-C113L

The ICF-C113L (7CET model) is approximately the same as the ICF-C113L (AEP model).
Only difference between ICF-C113L (AEP model) and ICF-C113L (7CET model) are listed.
For other information, please refer to the previously issued ICF-C113/C113L/C113V service manual (9-925-933-11).

● DIFFERENCE TABLE

ACCESSORIES & PACKING MATERIALS

Page	ICF-C113L (AEP model)		ICF-C113L (7CET model)	
	Part No.	Description	Part No.	Description
24	3-861-951-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) (C113 : AEP, Swiss, AUS, C113L)	3-861-951-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) (C113 : AEP, Swiss, AUS, C113L)
	3-861-951-41	MANUAL, INSTRUCTION (ENGLISH, ITALIAN, SPANISH, CHINESE) (C113 : Italian, E/C113L : AEP)		————————
	3-861-951-51	MANUAL, INSTRUCTION (RUSSIAN, CZECH, POLISH, HUNGALIAN) (C113 : Swiss)	3-861-951-51	MANUAL, INSTRUCTION (RUSSIAN, CZECH, POLISH, HUNGALIAN) (C113 : Swiss/ C113L : 7CET)

• Except for the above, are identical to the ICF-C113L (SILVER) and ICF-C113L (AEP models).

9-925-933-81

Sony Corporation
Personal A&V Products Company

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